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City of Hiawatha

Engineering Department

101 Emmons St., Hiawatha Iowa, 52233-1697
PHONE (319) 393-1515 ext. 511 FAX (319) 393-1516

To: **Mayor and City Council** **Date:** **August 8, 2017**

From: John C Bender PE, City Engineer

Re: **Boyson Road Capacity Improvements 2017**

Description: **Amending or Expanding Resolution No 17-122**

Report:

We approved Resolution 17-122 June 21st to pre-purchase the new signal equipment for the upgrade at the Boyson Road/I-380 Interchange. The resolution is attached along with the proposal from Traffic Control Corporation for all new signal equipment, plus a new cabinet at the northbound off ramp. The contractor proposed we basically start over in this cabinet because this equipment is the master controller for all 3 intersections, both off ramps and the Boyson Road/NCPR intersection. The existing switch gear in the cabinet is over 20 years old and could become a problem after we connect the new controllers.

Because of this change, we need to have a licensed electrician install the cabinet and equipment. We have one proposal from Trey Electric, the contractor we are using on the Emmons/Robins/NCPR intersection. We are seeking another proposal and will hopefully have one more for the Council to consider. Either way the 2 contracts added together may exceed the $40,000 amount we approved on June 21st.

We can modify the existing resolution or approve a new resolution for the installation work. This will be a great help to keep this project moving. The paving contractor moves in Monday August 14th and will have the work completed by September 1st.

Engineering recommends moving forward with a contract with an electrician to install the traffic signal equipment for the Boyson Road Capacity Improvement Project. If you need any further information, please let me know.

RESOLUTION NO. 17-122
City Council

RESOLUTION AUTHORIZING PURCHASE OF TRAFFIC LIGHT SIGNALING EQUIPMENT IN CONNECTION WITH THE 2017 BOYSON ROAD CAPACITY IMPROVEMENTS PROJECT AT NORTH CENTER POINT ROAD AND I-380

WHEREAS, on June 21, 2017, City Council passed Resolution #17-121 adopting plans, specifications, form of contract and estimate of cost and directing publication of Notice to Bidders for the 2017 Boyson Road Capacity Improvements Project at North Center Point Road and I-380, and

WHEREAS, along with the roadway paving and sidewalk construction work included in the 2017 Boyson Road Capacity Improvements Project at North Center Point Road and I-380, new traffic signal equipment will be installed, and

WHEREAS, the project engineer cost estimate for the purchase and installation of the traffic signal equipment is $40,000.00, and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF HIAWATHA, IOWA, to authorize City Staff to move forward with the purchase and installation of traffic signal equipment at a total estimated cost of $40,000.00, in connection with the 2017 Boyson Road Capacity Improvements Project at North Center Point Road and I-380.

AYES: Bob Rampulla, Aime Wichtendahl, Dick Olson, Marty Bruns, Dennis Norton
NAYS: None

PASSED AND APPROVED this 21st day of June, 2017.

Bill Bennett, Mayor

ATTEST:

Kelly Kornegor, City Clerk

TRAFFIC CONTROL CORPORATION
1810 SW WHITE BIRCH CIRCLE,
SUITE 108
ANKENY, IA 50023

QUOTATION

Number 616158

To 14765
HIAWATHA, CITY OF
101 EMMONS STREET
HIAWATHA IA 52233
USA

Attn
Email
Phone 319-393-1515 **Fax**

Quote Date 7/11/2017 **Expires** 10/9/2017
Terms NET 30 BASED ON APPROVED CREDIT
FOB DESTINATION-FRT INCLUDED
Salesperson DOUG RIPLEY
Email dripley@trafficcontrolcorp.com

Letting Date
Book/Call/Item
Contract No

Location HIAWATHA, IA
Description I-380 & BOYSON RD

COMPONENTS AND COMMUNICATIONS WILL ALLOW END TO END COMMUNICATIONS FOR PEER TO PEER TYPE OPERATIONS TO RUN TIME OF DAY COORDINATION, CLOCK SYNC AS WELL AS OTHER ADVANCED FEATURES COMMON NEAR INTERSECTION RAMPS. A MASTER CONTROLLER IS NOT INCLUDED AND WOULD NEED TO BE ADDED IF DESIRE TO RUN A COMPLETE CLOSED LOOP SYSTEM EXISTS.

Part Number / Description	Unit Price	Qty/UM	Net Price
CONTROLLER UPGRADE	4,650.00	2.00 EA	9,300.00
INCLUDES COBALT CHARACTER MODE CONTROLLER AND MMU2. D CONNECTOR HARNESS INCLUDED WITH LABOR TO WIRE & PROGRAM EACH FOR THE INTERSECTIONS			
NEMA TS2 CABINET - P SIZED - I380& NB RAMP	13,350.00	1.00 EA	13,350.00
INCLUDES COBALT CHARACTER MODE CONTROLLER, MMU2, RISER AND PLUG INS. INCLUDES FIELD PROGRAMMING OF INTERSECTION.			
EXISTING BOLT PATTERN WILL NEED TO BE VERIFIED TO MAKE SURE BASE AND ANCHOR BOLTS ARE PROPERLY LOCATED.			
CABINET INTERCONNECT	2,835.00	3.00 EA	8,505.00
INCLUDES RUGGEDCOM RS900 NEMA RATED SWITCH WITH WIRELESS COMMUNICATIONS INCORPORATED INTO SWITCH. ANTENNA AND CABLE INCLUDED.			
BANDWIDTH DESIGNED FOR FIELD EQUIPMENT COMMUNICATIONS FOR INTERCONNECT AND TIME SYNC. IF VIDEO IS TO BE VIEWED OVER NETWORK, A MORE ROBUST BANDWIDTH MAY BE REQUIRED.			

Item Total **31,155.00**

Pricing does not include applicable sales taxes. If order is to be exempt sales tax, documentation must be provided at time of order. Additional terms may apply. Review our full Terms & Conditions of Sale at www.trafficcontrolcorp.com.

"WE ARE THE DIFFERENCE!"

trey electric

495 62nd St. Suite 1
Marion, Iowa, 52302
Residential Commercial industrial

Quote

Date: August 4th, 2017

Project description: Hiawatha Boyson Rd Traffic Signal Upgrades

- Remove Cabinet
- Install New Cabinet
- Install Wireless Antenna (4)
- Install Coax
- Mobilization
- Traffic Control

Total Cost Estimate: $11,400.00

Tim Jones
Vice President
trey electric
319-721-7276
timj@treyelectric.com

DRAFT

RESOLUTION NO. 17-
City Council

RESOLUTION AUTHORIZING ADDITIONAL FUNDING FOR THE INSTALLATION OF TRAFFIC LIGHT SIGNALING EQUIPMENT IN CONNECTION WITH THE 2017 BOYSON ROAD CAPACITY IMPROVEMENTS PROJECT AT NORTH CENTER POINT ROAD AND I-380

WHEREAS, on June 21, 2017, City Council passed Resolution #17-122 authorizing City Staff to move forward with the purchase and installation of traffic signal equipment at a total estimated cost of $40,000.00, in connection with the 2017 Boyson Road Capacity Improvements Project at North Center Point Road and I-380, and

WHEREAS, the age of the existing switch gear in the signal cabinet presents a compatibility issue with the new controllers and replacement of the signal cabinet requires installation by a licensed electrician thereby increasing the total estimated cost of $40,000.00, previously approved by Resolution #17-122, and

WHEREAS, the cost for the installation of the signal cabinet is in an amount not to exceed $12,000.00, bringing the total cost for the purchase and installation of traffic signal equipment and signal cabinet to a total estimated cost of $52,000.00, and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF HIAWATHA, IOWA, to authorize additional funding in the amount of $12,000.00, for City Staff to move forward with the purchase and installation of traffic signal equipment and a new signal cabinet at a total estimated cost of $52,000.00, in connection with the 2017 Boyson Road Capacity Improvements Project at North Center Point Road and I-380.

AYES:
NAYS:
ABSENT:

PASSED AND APPROVED this 16th day of August, 2017.

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Bill Bennett, Mayor

ATTEST:

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Kelly Kornegor, City Clerk